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APPLICATION NO.	F1	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/775,473 02/09/2004		Ing-Shin Chen	Atmi-663	1337			
25559	7590	08/10/2005		EXAMINER			
ATMI, INC. 7 COMME		710	PASCHALL, MARK H				
DANBURY		_	ART UNIT	PAPER NUMBER			
				3742	3742		
			DATE MAILED: 08/10/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

	· <u>-</u>									
Office Action Summary			Application No.		Applicant(s)					
			10/775,473		CHEN ET AL.					
			xaminer		Art Unit					
			lark H. Pasch		3742					
Period fo	The MAILING DATE of this commur r Reply	nication appear	rs on the cov	er sheet with the c	orrespondence ad	Idress				
THE N - Exten after S - If the - If NO - Failur Any re	DRTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comperiod for reply specified above is less than thirty (5 period for reply is specified above, the maximum s e to reply within the set or extended period for reply eply received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a) munication. s0) days, a reply with latutory period will ap y will, by statute, caus	h). In no event, ho hin the statutory m apply and will expiruse the application	wever, may a reply be tim ninimum of thirty (30) days e SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered time the mailing date of this c D (35 U.S.C. § 133).					
Status	·									
1)⊠	Responsive to communication(s) file	ed on			•					
2a) <u></u>	This action is FINAL.	2b)⊠ This act	tion is non-fi	nal.						
3) 🗌										
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Dispositi	on of Claims									
5)⊠ 6)⊠ 7)□	Claim(s) <u>1-22</u> is/are pending in the 4a) Of the above claim(s) is/a Claim(s) <u>1-18 and 20-22</u> is/are allow Claim(s) <u>19</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restricted.	nre withdrawn f ved.								
Application	on Papers									
9) 🔲 -	The specification is objected to by th	e Examiner.								
10) 🔲 -	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
	Applicant may not request that any obje	ection to the drav	wing(s) be hel	d in abeyance. See	e 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including The oath or declaration is objected t		•	-, ,		• •				
Priority u	nder 35 U.S.C. § 119									
12)	Acknowledgment is made of a claim  All b) Some * c) None of:  1. Certified copies of the priority  2. Certified copies of the priority  3. Copies of the certified copies application from the Internations ee the attached detailed Office actions	documents had documents had of the priority onal Bureau (P	ave been red ave been red documents l PCT Rule 17	ceived. ceived in Application have been receive 2(a)).	on No ed in this National	Stage				
Attachment	(s)			_						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (I	TO 040\	4) [	Interview Summary Paper No(s)/Mail Da						
3) Inform	e of Draftsperson's Patent Drawing Review (I nation Disclosure Statement(s) (PTO-1449 of 'No(s)/Mail Date		5) [ 6) [	Notice of Informal P		O-152)				

#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-18,20-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In the adjusting step for delta W in the claims rejected the inclusion of the term "or", between elements (i) and (ii) is vague, since it is not clear if one of items (i)-(iii) is designated or id items (i) and (ii) are chosen in lieu of item (iii). Clarification of the term "or" is required in the forth coming response.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 19 is rejected under 35 U.S.C. 102(e) as being anticipated by Smith et al.

Note page 4 in Smith et al denotes calibration of the sensor at steady state, barring further description of just what steady state refers to, since the sensor is calibrated in the absence of gases sensed during use, such calibration leading to an adjustment of power as designated.

## Allowable Subject Matter

Claims 1-18 and 20-22 are allowed. The following is an examiner's statement of reasons for allowance: the prior art of record does not set forth the detailed calculation of resistance using formulas (i) –(iii).

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yannopoulos,

Sekido et al and Williams are cited for disclosing pertinent heating control systems of interest.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.

Art Unit: 3742

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark H. Paschall whose telephone number is 703 308-1642. The examiner can normally be reached on 7am - 3pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on (703) 305-5766. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M H√a ~ Mark H Paschall Primary Examiner Art Unit 3742 Page 4

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